

COST PROJECTION REPORT FOR

10/20/93

11

CONTINENTAL CHEMISTE CHICAGO, COOK COUNTY, ILLINOIS

TDD: T05-9310-014 PAN: EIL0784VAA

Prepared for

Emergency & Enforcement Response Branch United States Environmental Protection Agency Region V

OCTOBER 20, 1993

Prepared by

Technical Assisstance Team Ecology & Environment, Inc 111 West Jackson Boulevard Chicago, Illinois

REMOVAL COST MANAGEMENT SYSTEM

COST PROJECTION

FOR

CONTINENTAL CHEMISTE CORPORATION

The presence of lindane contaminated soil and wooden floor at Continental Chemiste Corporation (CCC) site need to be addressed to abate threats due to lindane's hazardous nature. Two options were explored for a removal action at CCC site. They are as follows:

- 1) Removal of contaminated wooden floor and the soil, decontaminating the building, replacing the wooden floor as needed and painting the floor and the walls with a sealant like epoxy paint. All the contaminated material will be landfilled. For this option removal costs were projected for
- A) The removal of 80 cubic yards of contaminated soil and 10 to 15 cubic yards of contaminated wooden floor of the building, i.e., for 45'wide and 95' length dimensions
- B) 45 cubic yards of contaminated soil and wood, i.e., half the building floor, assuming contamination may not be prevalent in half the building area.
- C) 30 cubic yards of contaminated soil and wood, i.e., one third (1/3) of the building area, assuming contamination may not be prevalent in two thirds (2/3) of the building area.
- 2) Removal of about 10 to 15 cubic yards of wooden floor, laying a 3 inch concrete on the concrete floor, replacement of wooden floor and painting the floor and walls with a water proof sealant like epoxy paint. The contaminated wooden floor will have be landfilled.

Landfill costs are estimated at \$ 300 per cubic yard and transportation costs are estimated at \$ 4 per mile. Projected removal costs are as follows:

Option 1

- A) \$ 113,259.13
- B) \$ 71,595.43
- C) \$ 54,535.30

Option 2

\$ 103,354.00

Cost projections for CCC site were made using Removal Cost Management System (RCMS) model.

Summary Report

Page: 1

Initial Cost Projection Scenario: CONCRETE WORK COST

Projection ID Number: IN-SITU Date: 10/20/93

Cleanup Contractor: RES5 - Riedel Environmental TAT Contractor: NO TAT COSTS

Cost Projection Summary

Contractor Personnel	20,044.87
Contractor Equipment	11,052.72
Unit Rate Materials	1,680.36
At Cost Materials	3,190.00
Subcontractors	28,371.75
Waste Transportation	2,299.00
Waste Disposal	8,255.50
Cleanup Contractor Subtotal	74,894.20
Federal and State Agencies	0.00
Extramural Subtotal	74,894.20
20 % Extramural Contingency	14,978.84
Extramural Subtotal	89,873.04
TAT Personnel	0.00
TAT Special Projects	0.00
TAT Analytical Services	0.00
·	*
Total TAT Costs	0.00
Other Cost Items	0.00
Extramural Subtotal	89,873.04
15 % Project Contingency	13,480.96
15 % Project contingency	15,400.70
Total Extramural Cost	103,354.00
EPA Regional Personnel	0.00
EPA Non-Regional Personnel	0.00
EPA Headquarters Direct	0.00
(10 % of Regional Hours)	
EPA Indirect	0.00
EPA Total	0.00
Project Total	103,354.00
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Summary Report (cont.)

Initial Cost Projection Scenario: CONCRETE WORK COST

Projection ID Number: IN-SITU

Date: 10/20/93

Cleanup Contractor: RES5 - Riedel Environmental

TAT Contractor: NO TAT COSTS

Project Scope

		Estimated	
Number	Step/Milestone	Duration	Cost
	•••••		
000	GENERAL SITE COSTS	7 Days	103,354.00

			103,354.00

Detailed Report By Category

Initial Cost Projection Scenario: CONCRETE WORK COST

Projection ID Number: IN-SITU

Date: 10/20/93

Page: 1

Cleanup Contractor: RES5 - Riedel Environmental TAT Contractor: NO TAT COSTS

Cost Projection Detail - By Category ====

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	Number of	Ni mbe	er of	Hre nor	,	DF), Lodge	Total
Job Category	Employees		ays	Day			ravel	Charge
000 - GENERAL SITE COSTS						• • • • • • • • • • • • • • • • • • • •		
	İ							
S105-Response Manager	1		7		4,046.2		-	-
S205-Equipment Operato	1		7	12.00	-		1,143.23	-
S210-Field Clerk/Typis	1		7	12.00	-		1,143.23	•
S215-Laborer	2		7	12.00	4,875.9	92 2	2,286.46	7,162.
·		1	T	otal fo	r GENERAL S	SITE COS	STS :	20,044.
					Total per	reonnel	cost:	20,044.
					rotat per	3011161	cost.	20,044
tractor Equipment		_				_		
Equipment Name	Number Needed	•		Stby	Mob/Demob Days	Decon Days	Mileage	Total Charge
000 - GENERAL SITE COSTS	• • • • • • • • • •							
40040 0 0	_	_	42.00	•	•	•		7.0
10910-Car-Passenger	1		12.00		0	0	N/A	340.
15430-Van-Passenger	1		12.00		0	0	N/A	382.
22020-Decon-8x25	1 1		12.00		2	0	N/A	252.
25540-Office-8x40			12.00		2	0	N/A	859.
36070-Loader/Wheel-CAT 966			12.00		2	1	N/A	5,658.
75140-Generator-50 KW	1 a 1		12.00		0	0	N/A	882.
76710-Lighting-Conventions	3 I		12.00 12.00		0	0	N/A	235.
78510-Scales- 79611-Water Laser-HI-Press			12.00		2 2	0 0	N/A N/A	50. 2, 3 90.
			. T	otal fo	r GENERAL S	SITE COS	sts :	11,052.
					Total equ	ıipment	cost:	11,052.
t Rate Materials								Tobal
Material Name	Material			t Cost	Number	of Uni	ts	Total Charge
000 - GENERAL SITE COSTS								
EPOXY PAINT	SEALANT			6.000	100.0	GAL		627.
GMC-H CARTRIDGES	BREATHING	PROT		33.600		BOX		1,053.
								.,

Total for GENERAL SITE COSTS :

1,680.36

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Detailed Report By Category (cont.)

Initial Cost Projection Scenario: CONCRETE WORK COST

Projection ID Number: IN-SITU

Date: 10/20/93

Cleanup Contractor: RES5 - Riedel Environmental

TAT Contractor: NO TAT COSTS

ate Materials	•		Total
Material Name		ost Number of Units	Charge
		. · · · · · · · · · · -	•
	Tota	l unit rate materials cost:	1,680.36
t Materials			Total
		Quantity/Amount	Charge
00 - GENERAL SITE COSTS			
PPE	PERSONAL PROT	SET	1,100.00
SAMPLE BOTTLES	SOIL SAMPLING	вох	1,045.00
SITE SUPPLIES	ADMIN/H&S	LOT	1,045.00
	Tota	l for GENERAL SITE COSTS :	3,190.00
		-	•••••
	To	tal at cost materials cost:	3,190.00
ractors	To	tal at cost materials cost:	
ractors		·	Total
ractors Subcontractor		tal at cost materials cost: Billing	
		·	Total
Subcontractor	Service	·	Total
Subcontractor O - GENERAL SITE COSTS	Service	Billing	Total Charge
Subcontractor O - GENERAL SITE COSTS MICHIGAN ELECTRIC PORT-O-LETS INC MICH BELL	Service ELECTRIC SERVICE PORT BATHROOM REN PHONE HOOK-UP	Billing 1.0 ONCE 1.0 ONCES 1.0 LOT	Total Charge
Subcontractor O - GENERAL SITE COSTS MICHIGAN ELECTRIC PORT-O-LETS INC MICH BELL OFFICE MACHINE RENTAL	Service ELECTRIC SERVICE PORT BATHROOM REN PHONE HOOK-UP COMPUTER/PRINT RT	Billing 1.0 ONCE 1.0 ONCES 1.0 LOT 1.0 ONCE	Total Charge 261.25 52.25 313.50 313.50
Subcontractor O - GENERAL SITE COSTS MICHIGAN ELECTRIC PORT-O-LETS INC MICH BELL OFFICE MACHINE RENTAL OFFICE MACHINE RENTAL	Service ELECTRIC SERVICE PORT BATHROOM REN PHONE HOOK-UP COMPUTER/PRINT RT FAX AND COPIER	Billing 1.0 ONCE 1.0 ONCES 1.0 LOT 1.0 ONCE 1.0 ONCE	Total Charge 261.25 52.25 313.50 313.50 313.50
Subcontractor O - GENERAL SITE COSTS MICHIGAN ELECTRIC PORT-O-LETS INC MICH BELL OFFICE MACHINE RENTAL OFFICE MACHINE RENTAL LOCAL WATER COMPANY	Service ELECTRIC SERVICE PORT BATHROOM REN PHONE HOOK-UP COMPUTER/PRINT RT FAX AND COPIER WATER FOR DECON	Billing 1.0 ONCE 1.0 ONCES 1.0 LOT 1.0 ONCE 1.0 ONCE 1.0 ONCE	Total Charge 261.25 52.25 313.50 313.50 313.50 104.50
Subcontractor O - GENERAL SITE COSTS MICHIGAN ELECTRIC PORT-O-LETS INC MICH BELL OFFICE MACHINE RENTAL OFFICE MACHINE RENTAL LOCAL WATER COMPANY CITY DUMP	Service ELECTRIC SERVICE PORT BATHROOM REN PHONE HOOK-UP COMPUTER/PRINT RT FAX AND COPIER WATER FOR DECON GARBAGE DISPOSAL	Billing 1.0 ONCE 1.0 ONCES 1.0 LOT 1.0 ONCE 1.0 ONCE 1.0 ONCE 2.0 ROLL-OFF	Total Charge 261.25 52.25 313.50 313.50 313.50 104.50 209.00
Subcontractor O - GENERAL SITE COSTS MICHIGAN ELECTRIC PORT-O-LETS INC MICH BELL OFFICE MACHINE RENTAL OFFICE MACHINE RENTAL LOCAL WATER COMPANY CITY DUMP GAS-R-US	Service ELECTRIC SERVICE PORT BATHROOM REN PHONE HOOK-UP COMPUTER/PRINT RT FAX AND COPIER WATER FOR DECON GARBAGE DISPOSAL FUEL FOR VECHILES	Billing 1.0 ONCE 1.0 ONCES 1.0 LOT 1.0 ONCE 1.0 ONCE 2.0 ROLL-OFF 1.0 ONCE	Total Charge 261.25 52.25 313.50 313.50 313.50 104.50 209.00 261.25
Subcontractor O - GENERAL SITE COSTS MICHIGAN ELECTRIC PORT-O-LETS INC MICH BELL OFFICE MACHINE RENTAL OFFICE MACHINE RENTAL LOCAL WATER COMPANY CITY DUMP GAS-R-US LAB LOCAL ONE	Service ELECTRIC SERVICE PORT BATHROOM REN PHONE HOOK-UP COMPUTER/PRINT RT FAX AND COPIER WATER FOR DECON GARBAGE DISPOSAL FUEL FOR VECHILES ANALYTICAL	1.0 ONCE 1.0 ONCES 1.0 LOT 1.0 ONCE 1.0 ONCE 1.0 ONCE 2.0 ROLL-OFF 1.0 ONCE	Total Charge 261.25 52.25 313.50 313.50 104.50 209.00 261.25 1,045.00
Subcontractor O - GENERAL SITE COSTS MICHIGAN ELECTRIC PORT-O-LETS INC MICH BELL OFFICE MACHINE RENTAL OFFICE MACHINE RENTAL LOCAL WATER COMPANY CITY DUMP GAS-R-US LAB LOCAL ONE CULIGAN MAN	Service ELECTRIC SERVICE PORT BATHROOM REN PHONE HOOK-UP COMPUTER/PRINT RT FAX AND COPIER WATER FOR DECON GARBAGE DISPOSAL FUEL FOR VECHILES ANALYTICAL DRINKING WATER	1.0 ONCE 1.0 ONCES 1.0 LOT 1.0 ONCE 1.0 ONCE 1.0 ONCE 2.0 ROLL-OFF 1.0 ONCE 1.0 ONCE 1.0 ONCE	Total Charge 261.25 52.25 313.50 313.50 313.50 104.50 209.00 261.25 1,045.00 104.50
Subcontractor O - GENERAL SITE COSTS MICHIGAN ELECTRIC PORT-O-LETS INC MICH BELL OFFICE MACHINE RENTAL OFFICE MACHINE RENTAL LOCAL WATER COMPANY CITY DUMP GAS-R-US LAB LOCAL ONE CULIGAN MAN MICHIGAN BELL	Service ELECTRIC SERVICE PORT BATHROOM REN PHONE HOOK-UP COMPUTER/PRINT RT FAX AND COPIER WATER FOR DECON GARBAGE DISPOSAL FUEL FOR VECHILES ANALYTICAL DRINKING WATER PHONE SERVICE	1.0 ONCE 1.0 ONCES 1.0 LOT 1.0 ONCE 1.0 ONCE 1.0 ONCE 2.0 ROLL-OFF 1.0 ONCE 1.0 ONCE 1.0 ONCE 1.0 ONCE	Total Charge 261.25 52.25 313.50 313.50 313.50 104.50 209.00 261.25 1,045.00 104.50 313.50
Subcontractor O - GENERAL SITE COSTS MICHIGAN ELECTRIC PORT-O-LETS INC MICH BELL OFFICE MACHINE RENTAL OFFICE MACHINE RENTAL LOCAL WATER COMPANY CITY DUMP GAS-R-US LAB LOCAL ONE CULIGAN MAN MICHIGAN BELL SUPPLY/SELL ALL	Service ELECTRIC SERVICE PORT BATHROOM REN PHONE HOOK-UP COMPUTER/PRINT RT FAX AND COPIER WATER FOR DECON GARBAGE DISPOSAL FUEL FOR VECHILES ANALYTICAL DRINKING WATER PHONE SERVICE REPLACEMENT WOOD	1.0 ONCE 1.0 ONCES 1.0 LOT 1.0 ONCE 1.0 ONCE 1.0 ONCE 2.0 ROLL-OFF 1.0 ONCE 1.0 ONCE 1.0 ONCE 1.0 ONCE	Total Charge 261.25 52.25 313.50 313.50 313.50 104.50 209.00 261.25 1,045.00 104.50 313.50
Subcontractor O - GENERAL SITE COSTS MICHIGAN ELECTRIC PORT-O-LETS INC MICH BELL OFFICE MACHINE RENTAL OFFICE MACHINE RENTAL LOCAL WATER COMPANY CITY DUMP GAS-R-US LAB LOCAL ONE CULIGAN MAN MICHIGAN BELL	Service ELECTRIC SERVICE PORT BATHROOM REN PHONE HOOK-UP COMPUTER/PRINT RT FAX AND COPIER WATER FOR DECON GARBAGE DISPOSAL FUEL FOR VECHILES ANALYTICAL DRINKING WATER PHONE SERVICE	1.0 ONCE 1.0 ONCES 1.0 LOT 1.0 ONCE 1.0 ONCE 1.0 ONCE 2.0 ROLL-OFF 1.0 ONCE 1.0 ONCE 1.0 ONCE 1.0 ONCE	Total Charge 261.25 52.25 313.50 313.50 313.50 104.50 209.00 261.25 1,045.00 104.50 313.50

Total subcontractor cost:

28,371.75

Detailed Report By Category (cont.)

Initial Cost Projection Scenario: CONCRETE WORK COST

Projection ID Number: IN-SITU

Date: 10/20/93

Page: 3

Cleanup Contractor: RES5 - Riedel Environmental TAT Contractor: NO TAT COSTS

			Cost	_	Total
Waste Type	Amount	Loads	Per Mile	Miles	Charge
000 - GENERAL SIT					
CONT WOOD	15 CU YDS	s 1	4.00	50	209.00
	1000 GAL			175	1,463.00
NON-HAZ	40 CU YD	•	4.00	50	418.00
PPE/METAL DE	BRI 20 CU YDS	5 1	4.00	50	209.00
			Total for GENER	AL SITE COSTS	
			Total tran	sportation cos	t: 2,299.00
ste Disposal					
Hanna Tima	Diamant Ma	الماما	No. o		
Waste Type	Disposal Me	ethod Uni	ts Units	Cost	Charge
000 - GENERAL SITE	E COSTS				
CONT WOOD	LAND FILL	CU YI	os	15 300.00	4,702.50
DECON WATER	OFF-SITE	GAL	5	00 4.00	2,090.00
NON-HAZ DEBR	IS OFF-SITE	CU.YI	S	40 10.00	418.00
PPE/METAL DE	BRI LANDFILL	CUYD	3	20 50.00	1,045.00
	starts.	•	otal for GENER	AL SITE COSTS	
			Tota	l disposal cos	t: 8,255.50
eral and State Agend	cies				0.00
			20 % Extramu	ral Contingency	y: 14,978.84
T Personnel					
	er of Hrs per ays Day	Hourly Rate	Labor	PD, Lodge Travel	Total Charge
000 - GENERAL SITE	E COSTS				
PL2	0 0.00	35.00	0.00	0.00	0.00
AT Special Projects					0.00
Analytical Service:	s				0.00
	5 .		· ·		

Detailed Report By Category (cont.)
Initial Cost Projection Scenario: CONCRETE WORK COST

Projection ID Number: IN-SITU Date: 10/20/93

Cleanup Contractor: RES5 - Riedel Environmental TAT Contractor: NO TAT COSTS

Other Costs

0.00

Page: 4

15 % Project Contingency:

13,480.96

EPA Regional Personnel

	Title	Number of Days	Hrs per Day	Hourly Rate	Labor	PD, Lodge Travel	Total Charge
000 -	GENERAL SITE CO	OSTS					
	NO EPA COSTS	0	0.00	30.00	0.00	0.00	0.00
EPA Non-Re	gional Personne	l	•				0.00

Total site cost: 103,354.00

Detailed Report By Task Code Initial Cost Projection Scenario: CONCRETE WORK COST

Projection ID Number: IN-SITU

Date: 10/20/93

Cleanup Contractor: RES5 - Riedel Environmental

TAT Contractor: NO TAT COSTS

Cost Projection Detail - By Task Code

000 - GENERAL SITE COSTS

Contractor Personnel

Job Category	Number of Employees	Number of Days	Mrs per Day	Labor	PD, Lodge Travel	Total Charge
`S105-Response Manager	1	7	12.00	4,046.28	1,143.23	5,189.51
S205-Equipment Operato	1	7	12.00	3,221.96	1,143.23	4,365.19
S210-Field Clerk/Typis	1	7	12.00	2,184.56	1,143.23	3,327.79
S215-Laborer	2	7	12.00	4,875.92	2,286.46	7,162.38

Total for GENERAL SITE COSTS : 20,044.87

Contractor Equipment

	Number	Reg	Hours	Stby	Mob/Demob	Decon	Mileage	Total
Equipment Name	Needed	Days	/day	Days	Days	Days		Charge
10910-Car-Passenger	1	7	12.00	0	0	0	N/A	340.30
15430-Van-Passenger	1	7	12.00	0	0	0	N/A	382.57
22020-Decon-8x25	1	7	12.00	. 0	2	0	N/A	252.29
25540-Office-8x40	1	7	12.00	0	2	0	N/A	859.66
36070-Loader/Wheel-CAT 966	1	7	12.00	0	2	1	N/A	5,658.97
75140-Generator-50 KW	1	7	12.00	0	0	0	N/A	882.29
76710-Lighting-Conventiona	1	7	12.00	0	0	0	N/A	235.44
78510-Scales-	1	2	12.00	0	2	0	N/A	50.45
79611-Water Laser-HI-Press	1	2	12.00	0	2	0	Ņ/A	2,390.75

Total for GENERAL SITE COSTS : 11,052.72

Unit Rate Materials

Material Name	Material Use	Unit Cost	Number of Units	Total Charge
EPOXY PAINT	SEALANT	6.000	100.0 GAL	627.00
GMC-H CARTRIDGES	BREATHING PROT	33.600	30.0 BOX	1,053.36

Total for GENERAL SITE COSTS : 1,680.36

At Cost Materials

Material Name	Material Use	Quantity/Amount	Total Charge
PPE	PERSONAL PROT	SET	1,100.00
SAMPLE BOTTLES	SOIL SAMPLING	BOX	1,045.00
SITE SUPPLIES	ADMIN/H&S	LOT	1,045.00

Total for GENERAL SITE COSTS :

3,190.00

Detailed Report By Task Code (cont.) Initial Cost Projection Scenario: CONCRETE WORK COST

Tilled Cost Projection Scenario. Concrete work Cost

Projection ID Number: IN-SITU Date: 10/20/93

Cleanup Contractor: RES5 - Riedel Environmental TAT Contractor: NO TAT COSTS

Subcontractors

			Total
Subcontractor	Service	Billing	Charge
MICHIGAN ELECTRIC	ELECTRIC SERVICE	1.0 ONCE	261.25
PORT-O-LETS INC	PORT BATHROOM REN	1.0 ONCES	52.25
MICH BELL	PHONE HOOK-UP	1.0 LOT	313.50
OFFICE MACHINE RENTAL	COMPUTER/PRINT RT	1.0 ONCE	313.50
OFFICE MACHINE RENTAL	FAX AND COPIER	1.0 ONCE	313.50
LOCAL WATER COMPANY	WATER FOR DECON	1.0 ONCE	104.50
CITY DUMP	GARBAGE DISPOSAL	2.0 ROLL-OFF	209.00
GAS-R-US	FUEL FOR VECHILES	1.0 ONCE	261.25
LAB LOCAL ONE	ANALYTICAL	1.0 ONCE	1,045.00
CULIGAN MAN	DRINKING WATER	1.0 ONCE	104.50
MICHIGAN BELL	PHONE SERVICE	1.0 ONCE	313.50
SUPPLY/SELL ALL	REPLACEMENT WOOD	1.0 ONCE	10,450.00
CONCRETE CONTRACTOR	CONCRETE LAYOUT	1.0 ONCE	14,630.00

Total for GENERAL SITE COSTS : 28,371.75

Waste Transportation

		Total			
Waste Type	Amount	Loads	Per Mile	Miles	Charge
CONT WOOD	15 CU YDS	1	4.00	50	209.00
CONT. WATER	1G00 GAL	2	4.00	175	1,463.00
NON-HAZ	40 CU YD	2	4.00	50	418.00
PPE/METAL DEBRI	20 CU YDS	1	4.00	50	209.00

Total for GENERAL SITE COSTS : 2,299.00

Waste Disposal

Waste Type	Disposal Method	Units	No. of Units	Unit Cost	Total Charge
CONT WOOD	LAND FILL	CU YDS	15	300.00	4,702.50
DECON WATER	OFF-SITE	GAL	500	4.00	2,090.00
NON-HAZ DEBRIS	OFF-SITE	CU.YDS	40	10.00	418.00
PPE/METAL DEBRI	LANDFILL	CUYDS	20	50.00	1,045.00

Total for GENERAL SITE COSTS : 8,255.50

Federal and State Agencies

0.00

Detailed Report By Task Code (cont.) Initial Cost Projection Scenario: CONCRETE WORK COST

Projection ID Number: IN-SITU

Date: 10/20/93

Cleanup Contractor: RES5 - Riedel Environmental

TAT Contractor: NO TAT COSTS

103,354.00

Total site cost:

			2	0 % Extramura	l Contingency:	14,978.8
'AT Personnel Number Level Day	of Hrs per s Day	Hourly Rate		Labor	PD, Lodge Travel	Total Charge
PL2 0	0.00	35.00		0.00	0.00	0.0
'AT Special Project	s				1	0.0
'AT Analytical Serv	ices					0.0
Other Costs						0.0
				15 % Projec	t Contingency:	13,480.9
PA Regional Person		Hrs per	Kourly		PD, Lodge	Total
Title	Days	•	Rate		, ,	Charge
NO EPA COSTS	0	0.00	30.00	0.0	0.00	0.0
PA Non-Regional Pe	rsonnel					
Title	Number of Days	Hrs per Day	Hourly Rate	Labor	PD, Lodge Travel	Total Charge
				Total	category cost:	103,354.00

Summary Report

Initial Cost Projection Scenario: OFF-SITE DISPOSAL

Projection ID Number: CONT.CHE

Project Total

Date: 10/20/93

Cleanup Contractor: RES5 - Riedel Environmental

TAT Contractor: NO TAT COSTS

113,259.13

Cost Projection Summary	

Contractor Personnel	33,989.42
Contractor Equipment	23,883.40
Unit Rate Materials	2,382.60
At Cost Materials	5,650.26
Subcontractors	14,473.25
Waste Transportation	3,344.00
Waste Disposal	24,453.00
Cleanup Contractor Subtotal	108,175.93
Federal and State Agencies	0.00
Extramural Subtotal	108,175.93
0 % Extramural Contingency	0.00
Extramural Subtotal	108,175.93
TAT Personnel	0.00
TAT Special Projects	0.00
TAT Analytical Services	0.00
Total TAT Costs	0.00
Other Cost Items	0.00
Extramural Subtotal	108,175.93
0 % Project Contingency	0.00
Total Extramural Cost	108,175.93
EPA Regional Personnel	0.00
EPA Non-Regional Personnel	0.00
EPA Headquarters Direct	763.20
(10 % of Regional Hours)	
EPA Indirect	4,320.00
EPA Total	5,083.20
	••••
	447 050 47

Summary Report (cont.)

Initial Cost Projection Scenario: OFF-SITE DISPOSAL

Projection ID Number: CONT.CHE

Date: 10/20/93

Cleanup Contractor: RES5 - Riedel Environmental

TAT Contractor: NO TAT COSTS

Page: 2

Project Scope

		Estimated	
Number	Step/Milestone	Duration	Cost
		•••••	•••••
000	GENERAL SITE COSTS	12 Days	113,259.13
999	ARCHIVE COSTS	12 Days	0.00
		•	
			113.259.13

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Detailed Report By Category Initial Cost Projection Scenario: OFF-SITE DISPOSAL

Projection ID Number: CONT.CHE

Date: 10/20/93

Page: 1

Cleanup Contractor: RES5 - Riedel Environmental TAT Contractor: NO TAT COSTS

Cost Projection Detail - By Category

	Number of	Numbe	r of	Hrs per	ı	PD.	. Lodge	Total
	Employees		ys	Day	Labor		ravel	Charge
000 - GENERAL SITE COSTS	;							
S105-Response Manager	1	1	2	12.00	6,936.4	8 1,	.885.18	8,821.
S205-Equipment Operato	1	1	2	12.00	5,523.3		,885.18	
S210-Field Clerk/Typis	1	1	2	12.00	3,744.9		,885.18	
S215-Laborer	2	1	2	12.00	8,358.7		,770.36	12,129.
			T	otal fo	r GENERAL S	ITE COST	rs :	33,989.
					Total per	sonnel (cost:	33,989.
ntractor Equipment								
	Number	Reg	Hours	Stby	Mob/Demob	Decon	Mileage	Total
Equipment Name	Needed	Days	/day	Days	Days	Days		Charge
000 - GENERAL SITE COSTS		•••••	•••••					
10910-Car-Passenger	1	12	12.00	0	0	0	N/A	680.
15430-Van-Passenger	1	12	12.00	0	0	0	N/A	765.
22020-Decon-8x25	1	12	12.00	0	2 .	0	N/A	360.
25540-Office-8x40	1	12	12.00	0	2	0	N/A	1,228.
36070-Loader/Wheel-CAT 966	2	12	12.00	0	2	1	N/A	15,562
75140-Generator-50 KW	1	12	12.00	0	0	0	N/A	1,764
76710-Lighting-Conventions	1	12	12.00	0	. 0	0	N/A	470.
78510-Scales-	1	4	12.00	0	2	0	N/A	63.
79611-Water Laser-HI-Press	1	4	12.00	0	2	0	N/A	2,988.
			T	otal fo	r GENERAL S	ITE COST	rs :	23,883.
					Total equ	ipment d		23,883.
it Rate Materials								
M. A					55	-£ 11*		Total
Material Name					Number 			Charge
000 - GENERAL SITE COSTS	; :							
EPOXY PAINT	SEALANT			6.000	100.0	GAL		627
GMC-H CARTRIDGES		DDOT		33.600				1,755.

Detailed Report By Category (cont.) Initial Cost Projection Scenario: OFF-SITE DISPOSAL

Projection ID Number: CONT.CHE

Date: 10/20/93

Page: 2

Cleanup Contractor: RES5 - Riedel Environmental TAT Contractor: NO TAT COSTS

Rate Materials			Total
Material Name	Material Use Unit	Cost Number of Units	Charge
	Tot	tal unit rate materials cost:	2,382.60
ost Materials			Takal
Material Name	Material Use	Quantity/Amount	Total Charge
000 - GENERAL SITE COSTS		••••••	
PPE	PERSONAL PROT	SET	1,650.00
SAMPLE BOTTLES	SOIL SAMPLING	вох	1,910.26
SITE SUPPLIES	ADMIN/H&S	LOT	2,090.00
•	Tot	tal for GENERAL SITE COSTS :	
	1	 Total at cost materials cost:	5,650.26
ontractors			
ontractors			Total
ontractors Subcontractor	Service	Billing	Total Charge
Subcontractor	Service	Billing	
Subcontractor 000 - GENERAL SITE COSTS MICHIGAN ELECTRIC	ELECTRIC SERVICE		
Subcontractor 000 - GENERAL SITE COSTS MICHIGAN ELECTRIC PORT-O-LETS INC	ELECTRIC SERVICE PORT BATHROOM REN	1.0 ONCE 1.0 MONTHS	Charge
Subcontractor 000 - GENERAL SITE COSTS MICHIGAN ELECTRIC PORT-O-LETS INC MICH BELL	ELECTRIC SERVICE PORT BATHROOM REN PHONE HOOK-UP	1.0 ONCE 1.0 MONTHS 1.0 LOT	Charge 261.25 104.50 313.50
Subcontractor O00 - GENERAL SITE COSTS MICHIGAN ELECTRIC PORT-O-LETS INC MICH BELL OFFICE MACHINE RENTAL	ELECTRIC SERVICE PORT BATHROOM REN PHONE HOOK-UP COMPUTER/PRINT RT	1.0 ONCE 1.0 MONTHS 1.0 LOT 1.0 ONCE	Charge 261.25 104.50 313.50 522.50
Subcontractor O00 - GENERAL SITE COSTS MICHIGAN ELECTRIC PORT-O-LETS INC MICH BELL OFFICE MACHINE RENTAL OFFICE MACHINE RENTAL	ELECTRIC SERVICE PORT BATHROOM REN PHONE HOOK-UP COMPUTER/PRINT RT FAX AND COPIER	1.0 ONCE 1.0 MONTHS 1.0 LOT 1.0 ONCE 1.0 ONCE	261.25 104.50 313.50 522.50 313.50
Subcontractor OOO - GENERAL SITE COSTS MICHIGAN ELECTRIC PORT-O-LETS INC MICH BELL OFFICE MACHINE RENTAL OFFICE MACHINE RENTAL LOCAL WATER COMPANY	ELECTRIC SERVICE PORT BATHROOM REN PHONE HOOK-UP COMPUTER/PRINT RT FAX AND COPIER WATER FOR DECON	1.0 ONCE 1.0 MONTHS 1.0 LOT 1.0 ONCE 1.0 ONCE 1.0 ONCE	261.25 104.50 313.50 522.50 313.50 104.50
SUBCONTRACTOR OOO - GENERAL SITE COSTS MICHIGAN ELECTRIC PORT-O-LETS INC MICH BELL OFFICE MACHINE RENTAL OFFICE MACHINE RENTAL LOCAL WATER COMPANY CITY DUMP	ELECTRIC SERVICE PORT BATHROOM REN PHONE HOOK-UP COMPUTER/PRINT RT FAX AND COPIER WATER FOR DECON GARBAGE DISPOSAL	1.0 ONCE 1.0 MONTHS 1.0 LOT 1.0 ONCE 1.0 ONCE 1.0 ONCE 2.0 ROLL-OFF	261.25 104.50 313.50 522.50 313.50 104.50 209.00
Subcontractor OOO - GENERAL SITE COSTS MICHIGAN ELECTRIC PORT-O-LETS INC MICH BELL OFFICE MACHINE RENTAL OFFICE MACHINE RENTAL LOCAL WATER COMPANY CITY DUMP GAS-R-US	ELECTRIC SERVICE PORT BATHROOM REN PHONE HOOK-UP COMPUTER/PRINT RT FAX AND COPIER WATER FOR DECON GARBAGE DISPOSAL FUEL FOR VECHILES	1.0 ONCE 1.0 MONTHS 1.0 LOT 1.0 ONCE 1.0 ONCE 1.0 ONCE 2.0 ROLL-OFF	261.25 104.50 313.50 522.50 313.50 104.50 209.00 522.50
SUBCONTRACTOR OOO - GENERAL SITE COSTS MICHIGAN ELECTRIC PORT-O-LETS INC MICH BELL OFFICE MACHINE RENTAL OFFICE MACHINE RENTAL LOCAL WATER COMPANY CITY DUMP GAS-R-US LAB LOCAL ONE	ELECTRIC SERVICE PORT BATHROOM REN PHONE HOOK-UP COMPUTER/PRINT RT FAX AND COPIER WATER FOR DECON GARBAGE DISPOSAL FUEL FOR VECHILES ANALYTICAL	1.0 ONCE 1.0 MONTHS 1.0 LOT 1.0 ONCE 1.0 ONCE 1.0 ONCE 2.0 ROLL-OFF 1.0 ONCE	261.25 104.50 313.50 522.50 313.50 104.50 209.00 522.50 1,045.00
SUBCONTRACTOR OOO - GENERAL SITE COSTS MICHIGAN ELECTRIC PORT-O-LETS INC MICH BELL OFFICE MACHINE RENTAL OFFICE MACHINE RENTAL LOCAL WATER COMPANY CITY DUMP GAS-R-US LAB LOCAL ONE CULIGAN MAN	ELECTRIC SERVICE PORT BATHROOM REN PHONE HOOK-UP COMPUTER/PRINT RT FAX AND COPIER WATER FOR DECON GARBAGE DISPOSAL FUEL FOR VECHILES ANALYTICAL DRINKING WATER	1.0 ONCE 1.0 MONTHS 1.0 LOT 1.0 ONCE 1.0 ONCE 1.0 ONCE 2.0 ROLL-OFF 1.0 ONCE 1.0 ONCE	261.25 104.50 313.50 522.50 313.50 104.50 209.00 522.50 1,045.00
Subcontractor OOO - GENERAL SITE COSTS MICHIGAN ELECTRIC PORT-O-LETS INC MICH BELL OFFICE MACHINE RENTAL OFFICE MACHINE RENTAL LOCAL WATER COMPANY CITY DUMP GAS-R-US LAB LOCAL ONE CULIGAN MAN MICHIGAN BELL	ELECTRIC SERVICE PORT BATHROOM REN PHONE HOOK-UP COMPUTER/PRINT RT FAX AND COPIER WATER FOR DECON GARBAGE DISPOSAL FUEL FOR VECHILES ANALYTICAL DRINKING WATER PHONE SERVICE	1.0 ONCE 1.0 MONTHS 1.0 LOT 1.0 ONCE 1.0 ONCE 1.0 ONCE 2.0 ROLL-OFF 1.0 ONCE 1.0 ONCE 1.0 ONCE	261.25 104.50 313.50 522.50 313.50 104.50 209.00 522.50 1,045.00 104.50 522.50
SUBCONTRACTOR OOO - GENERAL SITE COSTS MICHIGAN ELECTRIC PORT-O-LETS INC MICH BELL OFFICE MACHINE RENTAL OFFICE MACHINE RENTAL LOCAL WATER COMPANY CITY DUMP GAS-R-US LAB LOCAL ONE CULIGAN MAN	ELECTRIC SERVICE PORT BATHROOM REN PHONE HOOK-UP COMPUTER/PRINT RT FAX AND COPIER WATER FOR DECON GARBAGE DISPOSAL FUEL FOR VECHILES ANALYTICAL DRINKING WATER	1.0 ONCE 1.0 MONTHS 1.0 LOT 1.0 ONCE 1.0 ONCE 1.0 ONCE 2.0 ROLL-OFF 1.0 ONCE 1.0 ONCE	261.25 104.50 313.50 522.50 313.50 104.50 209.00 522.50 1,045.00
Subcontractor OOO - GENERAL SITE COSTS MICHIGAN ELECTRIC PORT-O-LETS INC MICH BELL OFFICE MACHINE RENTAL OFFICE MACHINE RENTAL LOCAL WATER COMPANY CITY DUMP GAS-R-US LAB LOCAL ONE CULIGAN MAN MICHIGAN BELL	ELECTRIC SERVICE PORT BATHROOM REN PHONE HOOK-UP COMPUTER/PRINT RT FAX AND COPIER WATER FOR DECON GARBAGE DISPOSAL FUEL FOR VECHILES ANALYTICAL DRINKING WATER PHONE SERVICE REPLACEMENT WOOD	1.0 ONCE 1.0 MONTHS 1.0 LOT 1.0 ONCE 1.0 ONCE 1.0 ONCE 2.0 ROLL-OFF 1.0 ONCE 1.0 ONCE 1.0 ONCE	261.25 104.50 313.50 522.50 313.50 104.50 209.00 522.50 1,045.00 104.50 522.50

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Detailed Report By Category (cont.) Initial Cost Projection Scenario: OFF-SITE DISPOSAL

Projection ID Number: CONT.CHE

TAT Analytical Services

Date: 10/20/93

Cleanup Contractor: RES5 - Riedel Environmental

TAT Contractor: NO TAT COSTS

0.00

	ansportatio					Cost		Total
	Waste T	уре	Amount		Loads P	er Mile	Miles	Charge
000								••••
000	- GENERAL	SITE COST	S 					
	CONT WAT	FP	1000 GAL		2	4.00	175	1,463.00
			90 CU YDS		6	4.00	50	1,254.00
	NON-HAZ		40 CU YD			4.00		418.00
		DEBRI	20 CU YDS		1	4.00		209.00
					Total	for GENERAL	SITE COSTS :	3,344.00
					Т	otal transp	- ortation cost:	3.344.00
								4, 2
ste Di	sposal						,	
								Total
	Waste T	ype	Disposal Me	thod	Units	Units	Cost	Charge
000	- GENERAL	CLTE COCT				,		
	- GENERAL	211E CO213						
	DECON WAT	ER	OFF-SITE		GAL	1000	4.00	4,180.00
			LAND FILL		CU YDS	90		18,810.00
	NON-HAZ D	EBRIS	OFF-SITE		CU.YDS	40	10.00	418.00
	PPE/METAL	DEBRI	LANDFILL		CUYDS	20	50.00	1,045.00
			a to a		Total	for GENERAL	SITE COSTS :	24,453.00
						Total	-	2/ /57 00
						iotal	disposal cost:	24,455.00
deral :	and State A	gencies						0.00
					0 :	% Extramura	l Contingency:	0.00
T Pers	onnel							
	N	umber of	Hrs per	Hourly			PD, Lodge	Total
	Level	Days	Day	Rate	La	bor	Travel	Charge
000	- GENERAL	SITE COSTS	3					
	PL2	0	0.00	35.00		0.00	0.00	0.00
r Spec	ial Project	s						0.00
			4					

Page: 4

Detailed Report By Category (cont.)
Initial Cost Projection Scenario: OFF-SITE DISPOSAL

Projection ID Number: CONT.CHE Date: 10/20/93

Cleanup Contractor: RES5 - Riedel Environmental TAT Contractor: NO TAT COSTS

Other Costs 0.00

0 % Project Contingency: 0.00

EPA Regional Personnel

Number of Hrs per Hourly PD, Lodge Total

Title Days Day Rate Labor Travel Charge

000 - GENERAL SITE COSTS

NO EPA COSTS 12 12.00 30.00 4,320.00 0.00 0.00

EPA Non-Regional Personnel 0.00

Total site cost: 108,175.93

Detailed Report By Task Code Initial Cost Projection Scenario: OFF-SITE DISPOSAL

Projection ID Number: CONT.CHE

Cleanup Contractor: RES5 - Riedel Environmental TAT Contractor: NO TAT COSTS

Cost Projection Detail - By Task Code

000 - GENERAL SITE COSTS

Contractor Personnel

	Number of	Number of	Hrs per		PD, Lodge	Total
Job Category	Employees	Days	Day	Labor	Travel	Charge
\$105-Response Manager	1	12	12.00	6,936.48	1,885.18	8,821.66
\$205-Equipment Operato	1	12	12.00	5,523.36	1,885.18	7,408.54
S210-Field Clerk/Typis	1	12	12.00	3,744.96	1,885.18	5,630.14
S215-Laborer	2	12	12.00	8,358.72	3,770.36	12,129.08
	•				•	

Total for GENERAL SITE COSTS : 33,989.42

Date: 10/20/93

Contractor Equipment

Equipment Name	Needed	Days	/day	Days	Days	Days	miteage	Charge
10910-Car-Passenger	1	12	12.00	0	0	0	N/A	680.61
15430-Van-Passenger	1	12	12.00	0	0	0	N/A	765.15
22020-Decon-8x25	1	12	12.00	0	2	0	N/A	360.42
25540-Office-8x40	1	12	12.00	0	2	0	N/A	1,228.08
36070-Loader/Wheel-CAT 966	2	12	12.00	0	2	1	N/A	15,562.16
75140-Generator-50 KW	1	12	12.00	0	0	0	N/A	1,764.59
76710-Lighting-Conventiona	1	12	12.00	0	0	0	N/A	470.88
78510-Scales-	1	4	12.00	0	2	0	N/A	63.07
79611-Water Laser-HI-Press	1	4	12.00	0	2	0	N/A	2,988.44

Number Per Hours Sthy Moh/Demoh Decon Milesse

Total for GENERAL SITE COSTS : 23,883.40

Unit Rate Materials

Material Name	Material Use	Unit Cost	Number of Units	Total Charge
EPOXY PAINT	SEALANT	6.000	100.0 GAL	627.00
GMC-H CARTRIDGES	BREATHING PROT	33.600	50.0 BOX	1,755.60
•				

Total for GENERAL SITE COSTS :

2,382.60

Page: 1

At Cost Materials

Material Name	Material Use	Quantity/Amount	Total Charge
PPE	PERSONAL PROT	SET	1,650.00
SAMPLE BOTTLES	SOIL SAMPLING	BOX	1,910.26
SITE SUPPLIES	ADMIN/H&S	LOT	2,090.00

Total for GENERAL SITE COSTS :

5,650.26

Detailed Report By Task Code (cont.) Initial Cost Projection Scenario: OFF-SITE DISPOSAL

Projection ID Number: CONT.CHE

PL2

0.00

35.00

0.00

0.00

0.00

Date: 10/20/93

Cleanup Contractor: RES5 - Riedel Environmental

TAT Contractor: NO TAT COSTS

Subcontractors					
_	_				Total
Subcontractor	Ser	vice	Bil	Charge	
MICHIGAN ELECTRIC	ELECTRIC	SERVICE	1.0	ONCE.	261.25
PORT-O-LETS INC	PORT BAT	HROOM REN	1.0	MONTHS	104.50
MICH BELL	PHONE HO	OK-UP	1.0	LOT	313.50
OFFICE MACHINE REN	ITAL COMPUTER	PRINT RT	1.0	ONCE	522.50
OFFICE MACHINE REN	ITAL FAX AND	COPIER	1.0	ONCE	313.50
LOCAL WATER COMPAN	Y WATER FO	R DECON	1.0	ONCE	104.50
CITY DUMP	GARBAGE	DISPOSAL	2.0	ROLL-OFF	209.00
GAS-R-US	FUEL FOR	VECHILES	1.0	ONCE	522.50
LAB LOCAL ONE	ANALYTIC	AĹ	1.0	ONCE	1,045.00
CULIGAN MAN	DRINKING	WATER	1.0	ONCE	104.50
MICHIGAN BELL	PHONE SE	RVICE	1.0	MONTH	522.50
SUPPLY/SELL ALL	REPLACEM	IENT WOOD	1.0	ONCE	10,450.00
		Tota	l for GENERA	L SITE COSTS :	14,473.25
Waste Transportation	. '				
	•		Cost	M21	Total
Waste Type	Amount	Loads	Per Mile	Miles	Charge
CONT. WATER	1000 GAL	2	4.00	175	1,463.00
LIN SOIL + WOOD	90 CU YDS	6	4.00	50	1,254.00
NON-HAZ	40 CU YD	2	4.00	50	418.00
PPE/METAL DEBRI	20 CU YDS	1	4.00	50	209.00
		Tota	l for GENERA	L SITE COSTS :	3,344.00
Waste Disposal	·				i
adote bropodet			No. of	Unit	Total
Waste Type	Disposal Method	Units	Units	Cost	Charge
DECON WATER	OFF-SITE	GAL	100	0 4.00	4,180.00
	LAND FILL	CU YDS	9		18,810.00
NON-HAZ DEBRIS		CU.YDS		0 10.00	418.00
PPE/METAL DEBRI	LANDFILL	CUYDS		0 50.00	1,045.00
		Tota	l for GENERA	L SITE COSTS :	24,453.00
Federal and State Agenc	ies				0.00
			0 % Extramur	al Contingency:	0.00
TAT Personnel					
Number of	Hrs per Hou			PD, Lodge	Total
Level Days	Day Ra	ite	Labor	Travel	Charge

Detailed Report By Task Code (cont.) Initial Cost Projection Scenario: OFF-SITE DISPOSAL

Projection ID Number: CONT.CHE

TAT

Date: 10/20/93

Cleanup Contractor: RES5 - Riedel Environmental

TAT Contractor: NO TAT COSTS

Level	Days	Day	Hourly Rate	Lat	or T	, Lodge ravel	Total Charge
AT Special	Projects						0.0
AT Analytic	al Services	;			,		0.0
ther Costs							0.0
		•			0 % Project C	ontingency:	0.0
PA Regional	Personnel						
Ti	itle	Days	Hrs per Day	Rate		PD, Lodge Travel	
NO EPA			12.00			0.00	0.0
				•	uarters Cost: Regional hours)	763.2
				EPA Indire	ect Cost:		4,320.0
				(144 hours	a \$30.00 per	hour)	
PA Non-Regi	onal Persor	nnel			,	•	
Ti	tle		-			PD, Lodge Travel	
		· ·			Total cat	egory cost:	113,259.
						site cost:	447 250

Summary Report

Initial Cost Projection Scenario: OFF-SITE DISP-48CYDS

Projection ID Number: 1/2AREA

Date: 10/20/93

Page: 1

Cleanup Contractor: RES5 - Riedel Environmental TAT Contractor: NO TAT COSTS

Cost Projection Summary

Contractor Personnel	20,044.87
Contractor Equipment	16,711.69
Unit Rate Materials	1,366.86
At Cost Materials	4,577.76
Subcontractors	8,516.75
Waste Transportation	2,717.00
Waste Disposal	17,660.50
Habite Disposati	
Cleanup Contractor Subtotal	71,595.43
Federal and State Agencies	0.00
Extramural Subtotal	71,595.43
0 % Extramural Contingency	0.00
Extramural Subtotal	71,595.43
	·
TAT Personnel	0.00
TAT Special Projects	0.00
TAT Analytical Services	0.00
Total TAT Costs	0.00
Other Cost Items	0.00
Extramural Subtotal	71,595.43
0 % Project Contingency	0.00
Total Extramural Cost	71,595.43
EPA Regional Personnel	0.00
EPA Non-Regional Personnel	0.00
EPA Headquarters Direct	0.00
(10 % of Regional Hours)	
EPA Indirect	0.00
EPA Total	0.00
	••••••
Project Total	71,595.43

Summary Report (cont.)

Initial Cost Projection Scenario: OFF-SITE DISP-48CYDS

Projection ID Number: 1/2AREA

Date: 10/20/93

Cleanup Contractor: RES5 - Riedel Environmental

TAT Contractor: NO TAT COSTS

Page: 2

Project Scope

Cost	Estimated Duration	Step/Milestone	Number
71,595.43	7 Days	GENERAL SITE COSTS	000
71.595.43	·		

Detailed Report By Category

Initial Cost Projection Scenario: OFF-SITE DISP-48CYDS

Projection ID Number: 1/2AREA

Date: 10/20/93

Cleanup Contractor: RES5 - Riedel Environmental

TAT Contractor: NO TAT COSTS

Cost	Projection	Detail	-	Ву	Category
====:		======		===	

	Number of	Numbe	er of	Hrs ner	•	Ρħ	, Lodge	Total
	Employees		ys	Day	Labor		ravel	Charge
000 - GENERAL SITE COSTS			/					
S105-Response Manager	1		7	12.00	4.046.2	8 1	,143.23	5,189.5
S205-Equipment Operato	1		7	12.00	3,221.9			
S210-Field Clerk/Typis	1		7	12.00	2,184.5		,143.23	
\$215-Laborer	2		7	12.00	4,875.9		,286.46	7,162
					•		•	
			т	otal fo	r GENERAL S	ITE COS	its :	20,044.8
					Total per	sonnel	cost:	20,044.8
ntractor Equipment	•							
Equipment Name	Number Needed	-		Stby Days	Mob/Demob Days	Decon Days	Mileage	Total Charge
000 - GENERAL SITE COSTS	; .		•••••					
40040 O D		-	42.00		•	•		7/0
10910-Car-Passenger	1		12.00		0	0	N/A	340.
15430-Van-Passenger	1		12.00		0	0	N/A	382.
22020-Decon-8x25	1		12.00		2	0	N/A	252.3
25540-Office-8x40	1		12.00		2	0	N/A	859.
36070-Loader/Wheel-CAT 966			12.00		2	1	N/A	11,317.9
75140-Generator-50 KW	1		12.00		0	0	N/A	882.
76710-Lighting-Conventiona			12.00		0	0	N/A	235.4
78510-Scales-	1		12.00		2	0	N/A	50.4
79611-Water Laser-HI-Press	1	2	12.00	0	2	0	N/A	2,390.
	r		T	otal fo	r GENERAL S	ITE COS	TS :	16,711.6
					Total equ	ipment	cost:	16,711.6
it Rate Materials								
Material Name	Material	Use	Uni	t Cost	Number	of Uni	ts	Total Charge
000 - GENERAL SITE COSTS								
EPOXY PAINT	SEALANT			6.000	5 0 0	GAL		313.
	BREATHING	DDOT.		33.600	30.0		•	1,053.3

Page: 2

Detailed Report By Category (cont.) Initial Cost Projection Scenario: OFF-SITE DISP-48CYDS

Projection ID Number: 1/2AREA

Date: 10/20/93

Cleanup Contractor: RES5 - Riedel Environmental TAT Contractor: NO TAT COSTS

			Total
Material Name	Material Use Unit	Cost Number of Units	Charge
	Total	 al unit rate materials cost:	1,366.86
st Materials	:		
Material Name	Material Use	Quantity/Amount	Total Charge
000 - GENERAL SITE COSTS			•
PPE	PERSONAL PROT	SET	1,100.00
SAMPLE BOTTLES	SOIL SAMPLING	BOX	1,910.26
SITE SUPPLIES	ADMIN/H&S	LOT	1,567.50
	Tota	al for GENERAL SITE COSTS :	
	T.	otal at cost materials cost:	4,577.76
ntractors			T-4-1
Subcontractor	Service	Billing	Total Charge
000 - GENERAL SITE COSTS		•••••	
MICHIGAN ELECTRIC	ELECTRIC SERVICE	1.0 ONCE	261.25
PORT-O-LETS INC	PORT BATHROOM REN	1.0 ONCES	52.25
MICH BELL	PHONE HOOK-UP	1.0 LOT	313.50
OFFICE MACHINE RENTAL	COMPUTER/PRINT RT	1.0 ONCE	313.50
OFFICE MACHINE RENTAL	FAX AND COPIER	1.0 ONCE	313.50
LOCAL WATER COMPANY	WATER FOR DECON	1.0 ONCE	104.50
CITY DUMP	GARBAGE DISPOSAL	2.0 ROLL-OFF	209.00
GAS-R-US	FUEL FOR VECHILES	1.0 ONCE	261.25
LAB LOCAL ONE	ANALYTICAL	1.0 ONCE	1,045.00
CULIGAN MAN	DRINKING WATER	1.0 ONCE	104.50
MICHIGAN BELL	PHONE SERVICE	1.0 ONCE	313.50
	REPLACEMENT WOOD	1.0 ONCE	5,225.00
SUPPLY/SELL ALL			

Detailed Report By Category (cont.) Page: 3

Detailed Report By Category (cont.) Initial Cost Projection Scenario: OFF-SITE DISP-48CYDS

Projection ID Number: 1/2AREA

Date: 10/20/93

Cleanup Contractor: RES5 - Riedel Environmental

TAT Contractor: NO TAT COSTS

						Cost		Total
	Waste 1	Гуре	Amount	ı	oads Pe	er Mile	Miles	Charge
000 -		SITE COSTS			• • • • • • • • • • • • • • • • • • • •			
	CONT. WAT	 TER	1000 GAL		2	4.00	175	1,463.00
	LIN SOIL		45 CU YDS		3	4.00	50	627.00
	NON-HAZ		40 CU YD		2	4.00	50	418.00
	PPE/METAL	DEBRI	20 CU YDS		1	4.00	50	209.00
					Total 1	for GENERA	L SITE COSTS :	2,717.00
					Τ.	tal taana	-	2,717.00
			i		10	otal trans	portation cost:	2,717.00
e Dispo	osal							
		·	Diamanal Was	L	Unite	No. of Units		Total
	Waste 1	. ype	Disposal Met	noa 	Units	units	Cost	Charge
000 -	GENERAL	SITE COSTS	5					
	DECON WAT	TER	OFF-SITE		GAL	50	0 4.00	2,090.00
ı	LIN SOIL	+ WOOD	LAND FILL		CU YDS	4	5 300.00	14,107.50
1	NON-HAZ [DEBRIS	OFF-SITE		CU.YDS	4	0 10.00	418.00
F	PPE/METAL	. DEBRI	LANDFILL		CUYDS	2	0 50.00	1,045.00
			:.		Total 1	for GENERA	L SITE COSTS :	17,660.50
			i				_	
						Total	disposal cost:	17,660.50
ral and	d State /	Agencies						0.00
					0 %	Extramur	al Contingency:	0.00
Personr	nel							
		lumber of	Hrs per	Hourly			PD, Lodge	Total
1	Level	Days	Day	Rate	Lab	юr	Travel	Charge
000 -	GENERAL	SITE COSTS				••••••	•••••	
	PL2	7	12.00	35.00	6,64	4.40	0.00	0.00
Special	l Project	ts	, 3		•			0.00
Analye	ioni Co	vi coc	•					0.00
watyt	ical Serv	rices						0.00

Detailed Report By Category (cont.)

Initial Cost Projection Scenario: OFF-SITE DISP-48CYDS

Projection ID Number: 1/2AREA

Cleanup Contractor: RES5 - Riedel Environmental

TAT Contractor: NO TAT COSTS

0.00 Other Costs

0 % Project Contingency:

0.00

Page: 4

EPA Regional Personnel

Title	Number of Days	Hrs per Day	Hourly Rate	Labor	PD, Lodge Travel	Total Charge
000 - GENERAL SITE COS	STS	•	••••••			
NO EPA COSTS	0	0.00	0.00	0.00	0.00	0.00
EPA Non-Regional Personnel						0.00

Total site cost: 71,595.43

Detailed Report By Task Code Initial Cost Projection Scenario: OFF-SITE DISP-48CYDS

Projection ID Number: 1/2AREA Date: 10/20/93

Cleanup Contractor: RES5 - Riedel Environmental TAT Contractor: NO TAT COSTS

Cost Projection Detail - By Task Code

000 - GENERAL SITE COSTS

Contractor Personnel

Job Category	Number of Employees	Number of Days	Hrs per Day	Labor	PD, Lodge Travel	Total Charge
S105-Response Manager	1	7	12.00	4,046.28	1,143.23	5,189.51
\$205-Equipment Operato	1	7	12.00	3,221.96	1,143.23	4,365.19
S210-Field Clerk/Typis	1	7	12.00	2,184.56	1,143.23	3,327.79
\$215-Laborer	2	7	12.00	4,875.92	2,286.46	7,162.38

Total for GENERAL SITE COSTS : 20,044.87

Page: 1

Contractor Equipment

Equipment Name	Number Needed	Reg Days	Hours /day	Stby Days	Mob/Demob Days	Decon Days	Mileage	Total Charge
10910-Car-Passenger	1	7	12.00	0	0	0	N/A	340.30
15430-Van-Passenger	1	7	12.00	0	0	0	N/A	382.57
22020-Decon-8x25	1	7	12.00	0	2	0	N/A	252.29
25540-Office-8x40	1	7	12.00	0	2	0	N/A	859.66
36070-Loader/Wheel-CAT 966	2	7	12.00	0	2	1	N/A	11,317.94
75140-Generator-50 KW	1	7	12.00	0	0	0	N/A	882.29
76710-Lighting-Conventiona	, 1	7	12.00	0	0	0	N/A	235.44
78510-Scales-	1	2	12.00	0	2	0	N/A	50.45
79611-Water Laser-HI-Press	1	2	12.00	0	2	0	N/A	2,390.75

Total for GENERAL SITE COSTS : 16,711.69

Unit Rate Materials

Material Name	Material Use	Unit Cost	Number of Units	Total Charge
EPOXY PAINT	SEALANT	6.000	50.0 GAL	313.50
GMC-H CARTRIDGES	BREATHING PROT	33.600	30.0 BOX	1,053.36

Total for GENERAL SITE COSTS : 1,366.86

At Cost Materials

Material Name	Material Use	Quantity/Amount	Total Charge
PPE	PERSONAL PROT	SET	1,100.00
SAMPLE BOTTLES	SOIL SAMPLING	вох	1,910.26
SITE SUPPLIES	ADMIN/H&S	LOT	1,567.50

Total for GENERAL SITE COSTS : 4,577.76

Detailed Report By Task Code (cont.)

Page: 2

Detailed Report By Task Code (cont.) Initial Cost Projection Scenario: OFF-SITE DISP-48CYDS

Projection ID Number: 1/2AREA Date: 10/20/93

Cleanup Contractor: RES5 - Riedel Environmental TAT Contractor: NO TAT COSTS

 	4	 	ors

			Total
Subcontractor	Service	Billing	Charge
	PLEOTOLO DEDULOS		261.25
MICHIGAN ELECTRIC	ELECTRIC SERVICE	1.0 ONCE	
PORT-O-LETS INC	PORT BATHROOM REN	1.0 ONCES	52.25
MICH BELL	PHONE HOOK-UP	1.0 LOT	313.50
OFFICE MACHINE RENTAL	COMPUTER/PRINT RT	1.0 ONCE	313.50
OFFICE MACHINE RENTAL	FAX AND COPIER	1.0 ONCE	313.50
LOCAL WATER COMPANY	WATER FOR DECON	1.0 ONCE	104.50
CITY DUMP	GARBAGE DISPOSAL	2.0 ROLL-OFF	209.00
GAS-R-US	FUEL FOR VECHILES	1.0 ONCE	261.25
LAB LOCAL ONE	ANALYTICAL	1.0 ONCE	1,045.00
CULIGAN MAN	DRINKING WATER	1.0 ONCE	104.50
MICHIGAN BELL	PHONE SERVICE	1.0 ONCE	313.50
SUPPLY/SELL ALL	REPLACEMENT WOOD	1.0 ONCE	5,225.00

Total for GENERAL SITE COSTS : 8,516.75

Waste Transportation

	•	Total			
Waste Type	Amount	Loads	Per Mile	Miles	Charge
CONT. WATER	1000 GAL	2	4.00	175	1,463.00
LIN SOIL + WOOD	45 CU YDS	3	4.00	50	627.00
NON-HAZ	40 CU YD	2	4.00	50	418.00
PPE/METAL DEBRI	20 CU YDS	1	4.00	50	209.00

Total for GENERAL SITE COSTS : 2,717.00

Waste Disposal

Waste Type	Disposal Method	Units	No. of Units	Unit Cost	Total Charge
DECON WATER	OFF-SITE	GAL	500	4.00	2,090.00
LIN SOIL + WOOD	LAND FILL	CU YDS	45	300.00	14,107.50
NON-HAZ DEBRIS	OFF-SITE	CU.YDS	40	10.00	418.00
PPE/METAL DEBRI	LANDFILL	CUYDS	20	50.00	1,045.00

Total for GENERAL SITE COSTS : 17,660.50

Federal and State Agencies

0.00

0.00

0 % Extramural Contingency:

TAT Personnel

	Number of	Hrs per	Hourly		PD, Lodge	Total
Level	Days	Day	· Rate ···	Labor ···	Travel	Charge
PL2	7	12.00	35.00	6.644.40	0.00	0.00

Page: 3

71,595.43

Total site cost:

Detailed Report By Task Code (cont.) Initial Cost Projection Scenario: OFF-SITE DISP-48CYDS

Projection ID Number: 1/2AREA Date: 10/20/93

Cleanup Contractor: RES5 - Riedel Environmental TAT Contractor: NO TAT COSTS

Number	of Hrs per	Hourly		PD	, Lodge	Total
Level Day	/s Day	Rate	La	bor T	ravel	Charge
TAT Special Project	ts	·		-		0.0
,						
TAT Analytical Serv	vices ,					0.0
Other Costs						0.0
	p. 14			0 % Project C	contingency:	0.0
	p • •	•		0 % Project C	Contingency:	0.0
EPA Regional Persor	nnel		Have by			
EPA Regional Persor	nnel Number of	Hrs per	-		PD, Lodge	
-	nnel Number of Days	Hrs per	-		PD, Lodge	Total Charge
Title	Number of Days	Hrs per Day	Rate	Labor	PD, Lodge Travel	Total Charge
Title NO EPA COSTS	Number of Days 0	Hrs per Day	Rate 0.00	Labor	PD, Lodge Travel	Total Charge O.
Title NO EPA COSTS	Number of Days O ersonnel Number of	Hrs per Day 0.00	Rate 0.00 Hourly	Labor 0.00	PD, Lodge Travel 0.00 PD, Lodge	Total Charge O.0
Title NO EPA COSTS EPA Non-Regional Pe	Number of Days O ersonnel Number of	Hrs per Day 0.00	Rate 0.00 Hourly	Labor 0.00	PD, Lodge Travel 0.00 PD, Lodge	Total Charge O.t

Summary Report

Initial Cost Projection Scenario: OFF-SITE DISP-31CYDS

Page: 1

Projection ID Number: 1/3AREA Date: 10/20/93

Cleanup Contractor: RES5 - Riedel Environmental TAT Contractor: NO TAT COSTS

Cost Projection Summary

*=========

Contractor Personnel	9,586.96
Contractor Equipment	7,630.74
Unit Rate Materials	746.13
At Cost Materials	2,535.50
Subcontractors	4,389.00
Waste Transportation	1,776.50
Waste Disposal	12,853.50
Habita Diopositi	
Classim Cantinaton Cultatal	39,518.33
Cleanup Contractor Subtotal	37,310.33
Federal and State Agencies	0.00
Extramural Subtotal	39,518.33
20 % Extramural Contingency	7,903.67
Extramural Subtotal	47,422.00
TAT Personnel	0.00
TAT Special Projects	0.00
TAT Analytical Services	0.00
TAT Allacycloac Services	0.00
Total TAT Costs	0.00
Total TAT Costs	0.00
Total TAT Costs Other Cost Items	0.00
Other Cost Items	0.00
Other Cost Items Extramural Subtotal	0.00
Other Cost Items	0.00
Other Cost Items Extramural Subtotal	0.00
Other Cost Items Extramural Subtotal	0.00
Other Cost Items Extramural Subtotal 15 % Project Contingency	0.00 47,422.00 7,113.30
Other Cost Items Extramural Subtotal 15 % Project Contingency	0.00 47,422.00 7,113.30
Other Cost Items Extramural Subtotal 15 % Project Contingency	0.00 47,422.00 7,113.30
Other Cost Items Extramural Subtotal 15 % Project Contingency Total Extramural Cost	47,422.00 7,113.30 54,535.30
Other Cost Items Extramural Subtotal 15 % Project Contingency Total Extramural Cost EPA Regional Personnel	0.00 47,422.00 7,113.30 54,535.30
Other Cost Items Extramural Subtotal 15 % Project Contingency Total Extramural Cost EPA Regional Personnel EPA Non-Regional Personnel	0.00 47,422.00 7,113.30 54,535.30 0.00
Other Cost Items Extramural Subtotal 15 % Project Contingency Total Extramural Cost EPA Regional Personnel EPA Non-Regional Personnel EPA Headquarters Direct	0.00 47,422.00 7,113.30 54,535.30
Other Cost Items Extramural Subtotal 15 % Project Contingency Total Extramural Cost EPA Regional Personnel EPA Non-Regional Personnel EPA Headquarters Direct (10 % of Regional Hours)	0.00 47,422.00 7,113.30 54,535.30 0.00 0.00
Other Cost Items Extramural Subtotal 15 % Project Contingency Total Extramural Cost EPA Regional Personnel EPA Non-Regional Personnel EPA Headquarters Direct	0.00 47,422.00 7,113.30 54,535.30 0.00 0.00 0.00
Other Cost Items Extramural Subtotal 15 % Project Contingency Total Extramural Cost EPA Regional Personnel EPA Non-Regional Personnel EPA Headquarters Direct (10 % of Regional Hours) EPA Indirect	0.00 47,422.00 7,113.30 54,535.30 0.00 0.00 0.00
Other Cost Items Extramural Subtotal 15 % Project Contingency Total Extramural Cost EPA Regional Personnel EPA Non-Regional Personnel EPA Headquarters Direct (10 % of Regional Hours)	0.00 47,422.00 7,113.30 54,535.30 0.00 0.00 0.00
Other Cost Items Extramural Subtotal 15 % Project Contingency Total Extramural Cost EPA Regional Personnel EPA Non-Regional Personnel EPA Headquarters Direct (10 % of Regional Hours) EPA Indirect	0.00 47,422.00 7,113.30 54,535.30 0.00 0.00 0.00
Other Cost Items Extramural Subtotal 15 % Project Contingency Total Extramural Cost EPA Regional Personnel EPA Non-Regional Personnel EPA Headquarters Direct (10 % of Regional Hours) EPA Indirect	0.00 47,422.00 7,113.30 54,535.30 0.00 0.00 0.00
Other Cost Items Extramural Subtotal 15 % Project Contingency Total Extramural Cost EPA Regional Personnel EPA Non-Regional Personnel EPA Headquarters Direct (10 % of Regional Hours) EPA Indirect	0.00 47,422.00 7,113.30 54,535.30 0.00 0.00 0.00

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Summary Report (cont.)

Initial Cost Projection Scenario: OFF-SITE DISP-31CYDS

Projection ID Number: 1/3AREA

Date: 10/20/93

Cleanup Contractor: RES5 - Riedel Environmental

TAT Contractor: NO TAT COSTS

Page: 2

Project Scope

		Estimated	
Number	Step/Milestone	Duration	Cost

000	GENERAL SITE COSTS	4 Days	54,535.30
			54,535.30

Detailed Report By Category

Initial Cost Projection Scenario: OFF-SITE DISP-31CYDS

Projection ID Number: 1/3AREA

Date: 10/20/93

Cleanup Contractor: RES5 - Riedel Environmental

TAT Contractor: NO TAT COSTS

Cost	Proje	ection	Detail	-	By	Category
====:	=====	=====			===	=======

ntractor Personnel	Number of	Mamba	n 06	Upo por		Dr), Lodge	Total
	Employees		ays	Day			ravel	Charge
000 - GENERAL SITE COSTS								
S105-Response Manager	1		4	12.00	2,312.1	16	698.06	3,010.2
S205-Equipment Operato	1		4		1,841.1		698.06	-
\$210-Field Clerk/Typis	1		4	12.00	1,248.3	32	698.06	1,946.3
S215-Laborer	1		4	12.00	1,393.1	12	698.06	2,091.
			ī	otal fo	or GENERAL S	SITE COS	STS :	9,586.9
					Total per	sonnel		9,586.9
ntractor Equipment								
	Number	-		. •	Mob/Demob	Decon	Mileage	Total
Equipment Name	Needed	•		Days	Days	Days		Charge
000 - GENERAL SITE COSTS			`,					
10910-Car-Passenger	1		12.00	0	0	0	N/A	272.
15430-Van-Passenger	1	4	12.00	0	0	0	N/A	306.0
22020-Decon-8x25	1	4	12.00	0	2	0	N/A	180.2
36070-Loader/Wheel-CAT 966	1		12.00		2	1	N/A	3,536.
75140-Generator-50 KW	1		12.00		0	0	N/A	705.1
76710-Lighting-Conventions	1		12.00		0	0	N/A	188.
78510 - Scales-	1		12.00		2	0	N/A	50.4
79611-Water Laser-HI-Press	1	2	12.00	0	2	0	N/A	2,390.
			T	otal fo	F GENERAL S	ITE COS	sts :	7,630.
					Total equ	ıipment	cost:	7,630.
t Rate Materials								
Material Name	Material	Use	Uni	t Cost	Number	of Uni	ts	Total Charge
000 - GENERAL SITE COSTS								
EPOXY PAINT	SEALANT			6.000	35.0	GAL		219.4
	BREATHING	DDOT		33.600				526.6

Detailed Report By Category (cont.) Initial Cost Projection Scenario: OFF-SITE DISP-31CYDS

Page: 2

Projection ID Number: 1/3AREA Date: 10/20/93

Projection ID Number: 1		Date: 10/20/93 TAT Contractor: NO TAT COSTS		
·	Cleanup Contractor: RES5 - Riedel Environmental			
Unia Basa Masaniala				
Unit Rate Materials			Total	
Material Name	Material Use Unit C	ost Number of Units	Charge	
	·			
		l unit rate materials cost:	746.13	
At Cost Materials			Tatal	
Material Name		Quantity/Amount	Total Charge	
000 - GENERAL SITE COSTS			••••	
PPE	- PERSONAL PROT	SET	550.00	
SAMPLE BOTTLES	SOIL SAMPLING	BOX	940.50	
SITE SUPPLIES	ADMIN/H&S	LOT	1,045.00	
	Tota	l for GENERAL SITE COSTS :		
	To	- stal at cost materials cost:	2,535.50	
Subcontractors				
Subcontractor	Service	Billing	Total Charge	
000 - GENERAL SITE COSTS	-			
MICHIGAN ELECTRIC	ELECTRIC SERVICE	1.0 ONCE	261.25	
PORT-O-LETS INC	PORT BATHROOM REN	1.0 ONCES	52.25	
LOCAL WATER COMPANY	WATER FOR DECON	1.0 ONCE	104.50	
CITY DUMP	GARBAGE DISPOSAL	1.0 ROLL-OFF	104.50	
GAS-R-US	FUEL FOR VECHILES	1.0 ONCE	104.50	
LAB LOCAL ONE	ANALYTICAL	1.0 ONCE	522.50	
CULIGAN MAN Supply/Sell all	DRINKING WATER REPLACEMENT WOOD	1.0 ONCE	104.50 3,135.00	
	Tota	l for GENERAL SITE COSTS :	4,389.00	
		Total subcontractor cost-		
		Total subcontractor cost:	4,389.00	
Waste Transportation		Cost	Total	
Waste Type	Amount	•	Charge	
000 - GENERAL SITE COSTS	many the same of the same of the	1,14		

Detailed Report By Category (cont.) Initial Cost Projection Scenario: OFF-SITE DISP-31CYDS

Projection ID Number: 1/3AREA

Cleanup Contractor: RES5 - Riedel Environmental

Date: 10/20/93 TAT Contractor: NO TAT COSTS

		:							
waste ira	ansportat Waste		Amount		Loads	Cost Per Mile	,	1i les	Total Charge
	LIN SOI	 L + WOOD	30 CU YDS		 2	4.00		50	418.00
	NON-HAZ		30 CU YD		2			50	418.00
		AL DEBRI	20 CU YDS		1	4.00		50	209.00
					To	tal for GENE	RAL SIT	TE COSTS :	1,776.50
						Total tra	nsporta	 ation cost:	1,776.50
Waste Dis	sposal								
		Timo	Diamagal Ma	thad	Units			Unit Cost	Total Charge
	waste	Туре	Disposal Me		onits	Oni c			charge
000	- GENERAI	L SITE COSTS	S	•					
	DECON W	ATER	OFF-SITE		GAL		500	4.00	2,090.00
	LIN SOII	L + WOOD			CU YDS		30	300.00	9,405.00
		DEBRIS			CU.YDS			10.00	313.50
		AL DEBRI	LANDFILL		CUYDS		20	50.00	1,045.00
					To	tal for GENE	RAL SIT	TE COSTS :	12,853.50
•						Tota	al disp	 cosal cost:	12,853.50
Federal a	and State	Agencies							0.00
		Ngo.io voo						_	
						20 % Extram	ural Co	ontingency:	7,903.67
TAT Perso	onnel							11	1
	Level	Number of Days	Hrs per Day	Hourly Rate		Labor		, Lodge ravel	Total Charge
000	- GENERA	L SITE COST	······································					••••••	
***	PL2	0	0.00	35.00		0.00		0.00	0.00
TAT Spec	ial Proje	cts							0.00
TAT Analy	ytical Se	rvices							0.00
Other Co:									0.00
other cos	3.C3								
	•					15 % Pro	ject Co	ontingency:	7,113.30

Detailed Report By Category (cont.) Initial Cost Projection Scenario: OFF-SITE DISP-31CYDS

Date: 10/20/93

Projection ID Number: 1/3AREA Cleanup Contractor: RES5 - Riedel Environmental TAT Contractor: NO TAT COSTS

EPA	Regi	onal	Personne	ı١
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EPA

Title	Number of Days	Hrs per Day	Hourly Rate	Labor	PD, Lodge Travel	Total Charge
000 - GENERAL SITE C	OSTS					
NO EPA COSTS	0	0.00	30.00	0.00	0.00	0.00
Non-Regional Personne	ι					0.00

Total site cost: 54,535.30

Detailed Report By Task Code Initial Cost Projection Scenario: OFF-SITE DISP-31CYDS

Projection ID Number: 1/3AREA

Date: 10/20/93

Cleanup Contractor: RES5 - Riedel Environmental

TAT Contractor: NO TAT COSTS

Page: 1

Cost Projection Detail - By Task Code

000 - GENERAL SITE COSTS

Contractor Personnel

•	Number of	Number of	Hrs per		PD, Lodge	Total
Job Category	Employees	Days	Day	Labor	Travel	Charge
S105-Response Manager	1	4	12.00	2,312.16	698.06	3,010.22
S205-Equipment Operato	1	4	12.00	1,841.12	698.06	2,539.18
S210-Field Clerk/Typis	1	4	12.00	1,248.32	698.06	1,946.38
S215-Laborer	1	4	12.00	1,393.12	698.06	2,091.18

Total for GENERAL SITE COSTS : 9,586.96

Contractor Equipment

Equipment Name	Number Needed	Reg Days	Hours /day	Stby Days	Mob/Demob Days	Decon Days	Mileage	Total Charge
10910-Car-Passenger	1	4	12.00	0	0	0	N/A	272.24
15430-Van-Passenger	1	4	12.00	0	0	0	N/A	306.06
22020-Decon-8x25	1	4	12.00	0	2	0	N/A	180.21
36070-Loader/Wheel-CAT 966	1	4	12.00	0	2	1	N/A	3,536.85
75140-Generator-50 KW	1	.4	12.00	0	0	0	N/A	705.83
76710-Lighting-Conventiona	1	4	12.00	. 0	0	0	N/A	188.35
78510-\$cales-	1	2	12.00	0	2	0	N/A	50.45
79611-Water Laser-HI-Press	1	2	12.00	0	2	0	N/A	2,390.75

Total for GENERAL SITE COSTS : 7,630.74

Unit Rate Materials

Material Name	Material Use	Unit Cost	Number of Units	Total Charge
EPOXY PAINT	SEALANT	6.000	35.0 GAL	219.45
GMC-H CARTRIDGES	BREATHING PROT	33.600	15.0 BOX	526.68
		·		

Total for GENERAL SITE COSTS : 746.13

At Cost Materials

Material Name	Material Use	Quantity/Amount	Total Charge
PPE	PERSONAL PROT	SET	550.00
SAMPLE BOTTLES	SOIL SAMPLING	вох	940.50
SITE SUPPLIES	ADMIN/H&S	LOT	1,045.00

Total for GENERAL SITE COSTS : 2,535.50

Detailed Report By Task Code (cont.) Initial Cost Projection Scenario: OFF-SITE DISP-31CYDS

Projection ID Number: 1/3AREA Date: 10/20/93

Cleanup Contractor: RES5 - Riedel Environmental TAT Contractor: NO TAT COSTS

=======================================					**********
Subcontractors					
					Total
Subcontractor	Se	rvice	Bil	ling	Charge
MICHIGAN ELECTRIC	ELECTRI	C SERVICE	1.0	ONCE	261.25
PORT-O-LETS INC	PORT BA	THROOM REN	1.0	ONCES	52.25
LOCAL WATER COMPAN	Y WATER F	OR DECON	1.0	ONCE	104.50
CITY DUMP	GARBAGE	DISPOSAL	1.0	ROLL-OFF	104.50
GAS-R-US	FUEL FO	FUEL FOR VECHILES		1.0 ONCE	
LAB LOCAL ONE	ANALYTI	ANALYTICAL		1.0 ONCE	
CULIGAN MAN	DRINKIN	DRINKING WATER		1.0 ONCE	
SUPPLY/SELL ALL	REPLACE	MENT WOOD	OOD 1.0 ONCE		3,135.00
		То	tal for GENERA	L SITE COSTS :	4,389.00
Waste Transportation					
			Cost		Total
Waste Type	Amount	Loads	Per Mile	Miles	Charge
CONT. WATER	500 GAL	1	4.00	 1 <i>7</i> 5	731.50
LIN SOIL + WOOD	30 CU YDS	2	4.00	50	418.00
NON-HAZ	30 CU YD	2	4.00	50	418.00
PPE/METAL DEBRI	20 CU YDS	1	4.00	50	209.00

11			1
Waste	וט	ISDO	saı

Waste Type	Disposal Method	Units	No. of Units	Unit Cost	Total Charge
DECON WATER	OFF-SITE	GAL	500	4.00	2,090.00
LIN SOIL + WOOD	LAND FILL	CU YDS	30	300.00	9,405.00
NON-HAZ DEBRIS	OFF-SITE	CU.YDS	30	10.00	313.50
PPE/METAL DEBRI	LANDFILL	CUYDS	20	50.00	1,045.00
					•••••
		Total	for GENERAL SI	TE COSTS :	12,853.50

Federal and State Agencies

0.00

Page: 2

20 % Extramural Contingency:

Total for GENERAL SITE COSTS :

7,903.67

1,776.50

	Number of	Hrs per	Hourly		PD, Lodge	Total
Level	Days	Day	Rate	Labor	Travel	Charge
PL2	0	0.00	35.00	0.00	0.00	0.00

Detailed Report By Task Code (cont.)

Initial Cost Projection Scenario: OFF-SITE DISP-31CYDS

Projection ID Number: 1/3AREA Date: 10/20/93

Cleanup Contractor: RES5 - Riedel Environmental TAT Contractor: NO TAT COSTS

TAT Special Projects 0.00

TAT Analytical Services 0.00

Other Costs 0.00

15 % Project Contingency: 7,113.30

EPA Regional Personnel

Number of Hrs per Hourly PD, Lodge Total
Title Days Day Rate Labor Travel Charge

NO EPA COSTS 0 0.00 30.00 0.00 0.00 0.00

EPA Non-Regional Personnel

Number of Hrs.per Hourly PD, Lodge Total Title Days Day Rate Labor Travel Charge

Total category cost: 54,535.30

Page: 3

Total site cost: 54,535.30

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